biologics
product catalog

BIOHORIZONS®
SCIENCE • INNOVATION • SERVICE

TABLE OF CONTENTS

Company Overview	1
Hard Tissue Regeneration	
MinerOss®	2
Grafton® DBM	2
Mem-Lok	3
AlloDerm® GBR™	3
Soft Tissue Regeneration	
AlloDerm®	4
Hu-Friedy Instruments	
Hu-Friedy Kits	5
Hu-Friedy Instruments	6-10
Hu-Friedy Perma Sharp Sutures	11-13
W&H® Motors & Accessories	14-15
Periodontal Instruments	16-17
Sinus / Bone Grafting Instruments	18-22
Periotomes	20
Osteotomes	21
Implant Site Dilators	21
Lip & Cheek Retractor	21
Trephines	22
Bone Fixation Screw Kit	23
AutoTac® System Kit	24
References	24
Ordering & Warranty Information	25

BIOHORIZONS®

Science-based products

BioHorizons is known for using science and innovation to create unique implants with proven surgical and esthetic results. Laser-Lok microchannels exemplify our dedication to evidence-based research and development.

The effectiveness of Laser-Lok has been proven with over 15 years of *in vitro*, animal, and human studies at leading universities.[1] This patented precision laser surface treatment is unique within the industry as the only surface treatment shown to attract a physical connective tissue attachment to a predetermined zone on the implant while inhibiting epithelial downgrowth and preserving the coronal level of bone; long term.[2]

Game-changing Innovation

Our highly advanced implant technologies, hard and soft tissue regeneration products, and cutting-edge digital dentistry with Virtual Implant Placement (VIP) treatment planning software have placed BioHorizons at the forefront of implant dentistry.

From surgical planning and site development to final restoration, BioHorizons is uniquely positioned to streamline the implant and restorative processes, enabling clinicians to create a more efficient continuum of care.

Unparalleled Service

BioHorizons understands the importance of exceeding service levels whether it relates to our global network of professional representatives or our highly trained customer care support team. Our team is in position to meet the needs of patients and clinicians across the entire continuum of care.

MinerOss

MinerOss is a mixture of allograft mineralized cortical and cancellous bone particles. The cortical component provides structural integrity and space-maintaining capability. The cancellous component's porous architecture promotes osteoconduction and rapid revascularization. MinerOss particle size ranges from 600-1250 microns. Reference manufacturer's Instructions for Use (IFU) package insert.

Applications include:

- Extraction socket grafting
- Ridge and sinus augmentation
- Bone augmentation around implants
- Bony defects
- Composite grafting with Grafton DBM

MO-C0.5	**0.5cc Vial**
MO-C1.0	**1.0cc Vial**
MO-C2.5	**2.5cc Vial**

Grafton DBM

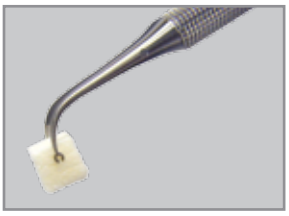
Grafton DBM is available in multiple forms to give the desired handling characteristics for multiple clinical indications. Only Grafton DBM is indicated as a bone void filler, bone graft extender and bone graft substitute.[3] Reference manufacturer's Instructions for Use (IFU) package insert.

Applications include:

- Extraction socket grafting
- Ridge and sinus augmentation
- Bone augmentation around implants
- Bony defects
- Composite grafting with MinerOss
- Periodontal regeneration

Grafton DBM Matrix Plugs (3D network of DBM fibers)

GR-MTX	**8mm x 8mm x 10mm Plugs (box of 5)**



Grafton DBM Matrix Plugs

Grafton DBM Putty in a Jar (DBM fibers in a glycerol carrier)

GR-PT.5	**0.5cc Putty**
GR-PT1	**1.0cc Putty**
GR-PT2.5	**2.5cc Putty**

Grafton DBM Putty in a Syringe (DBM fibers in a glycerol carrier)

GR-SYR.25	**0.25cc Putty (box of 2)**

Grafton DBM Flex Sheet (Pressed DBM fibers)

GR-FL1.5	**1.5cm x 1.5cm Sheet**

Grafton DBM Putty

Grafton DBM and MinerOss are not available in all countries.

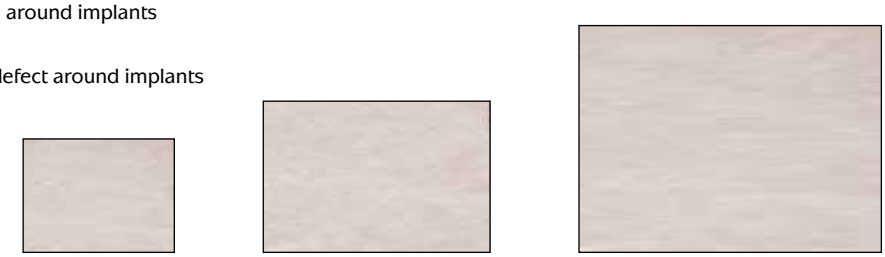
Mem-Lok

Mem-Lok is a Type I Collagen resorbable barrier membrane of bovine origin. The macromolecular pore size allows vital nutrient transfer while the cell occlusive membrane prevents soft tissue ingrowth. Mem-Lok has a predictable resorption time of 26-38 weeks.[4] Reference manufacturer's Instructions for Use (IFU) package insert.

RCM-ML1520	**Resorbable Collagen Membrane 15mm x 20mm**
RCM-ML2030	**Resorbable Collagen Membrane 20mm x 30mm**
RCM-ML3040	**Resorbable Collagen Membrane 30mm x 40mm**

Applications include:

- Extraction sockets
- Sinus augmentation – Sinus window
- Ridge preservation
- Bone augmentation around implants
- Bony defects
- Peri-implant bone defect around implants



15mm x 20mm | 20mm x 30mm | 30mm x 40mm

Mem-Lok is available in these convenient sizes. Examples are shown to scale.

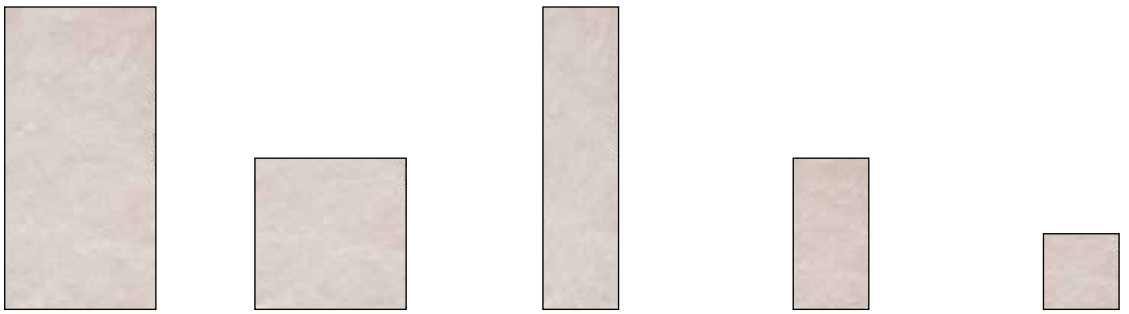
AlloDerm GBR

AlloDerm GBR remodels into the patient's own tissue which results in enhanced soft tissue and esthetics.[5] The thickness ranges from 0.5 to 0.9mm, providing a material that is easy to handle, yet can be securely sutured or tacked. Reference manufacturer's Instructions for Use (IFU) package insert.

Applications include:

- Graft protection and containment
- Flap extender to achieve primary closure

AL-GBR-1x1	**AlloDerm GBR 1cm x 1cm**
AL-GBR-1x2	**AlloDerm GBR 1cm x 2cm**
AL-GBR-1x4	**AlloDerm GBR 1cm x 4cm**
AL-GBR-2x2	**AlloDerm GBR 2cm x 2cm**
AL-GBR-2x4	**AlloDerm GBR 2cm x 4cm**



2cm x 4cm | 2cm x 2cm | 1cm x 4cm | 1cm x 2cm | 1cm x 1cm

AlloDerm GBR is available in these convenient sizes. Examples are shown to scale.

Mem-Lok and AlloDerm GBR are not available in all countries.
AlloDerm GBR may not be returned or exchanged for credit.

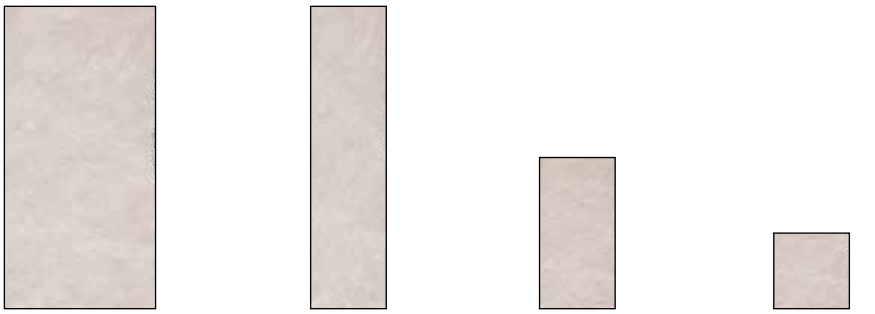
AlloDerm

AlloDerm offers a safe alternative to autologous connective tissue for multiple soft tissue augmentation applications. Multiple randomized clinical trials have indicated that there is no statistically recognizable difference between AlloDerm and connective tissue in terms of recession coverage.[6] Thickness varies from 0.9 to 1.6 mm. Reference manufacturer's Instructions for Use (IFU) package insert.

Applications include:

- Root coverage
- Gingival augmentation
- Soft tissue ridge augmentation
- Soft tissue augmentation around implants

ALLODERM 1x1	**AlloDerm 1cm x 1cm**
ALLODERM 1x2	**AlloDerm 1cm x 2cm**
ALLODERM 1x4	**AlloDerm 1cm x 4cm**
ALLODERM 2x4	**AlloDerm 2cm x 4cm**



2cm x 4cm | 1cm x 4cm | 1cm x 2cm | 1cm x 1cm

AlloDerm is available in these convenient sizes. Examples are shown to scale.

A typical Miller Class I or II recession

Pouch preparation begins with papillary incisions

AlloDerm is inserted under the intact papilla

Post operatively, an increase in root coverage and attached gingiva are observed [7]

AlloDerm is not available in all countries and must be shipped overnight.
AlloDerm may not be returned or exchanged for credit.

HU-FRIEDY KITS

Microsurgery has recently been introduced into oral plastic surgery. Among the benefits are refined instruments and materials, which allow for finer, more precise surgical procedures that can result in predictable outcomes. Dr. Edward P. Allen, a recognized expert in periodontal surgery, has designed three microsurgical kits that provide instrumentation allowing for minimally invasive surgical techniques:

- **The Allen Oral Plastic Surgery Kit**
- **The Allen Ridge Augmentation / Esthetic Crown Lengthening Kit**
- **The Allen / Johnston Suture Removal Kit**

The Allen Oral Plastic Surgery Kit PS

Reference #	Description	Product Attributes and Function
HF-SYRCW	Type CW Aspirating Anesthetic Syringe	Aspirating anesthetic syringe
HF-10-130-05	5 Scalpel Hdl.	Round handle allows finger tip control
HF-PCP116	CP-11 Color-Coded Probe	3,6,8 and 11mm probe with ergonomic handle
HF-MIR	5 Mouth Mirror, 6 Satin Steel Handle	Mirror with ergonomic handle for cheek and tongue retraction (2 per kit)
HF-SYG7/86	7/8 Younger-Good Curette	Used for root preparation and papilla elevation (2 per kit)
HF-SPM20	Microsurgical Corn Suture Pliers	Allows better visibility of tissue margins for precise suture placement
HF-8-905DD	Precision Dressing Forceps	Small diameter jaw for assistant in capture of needles
HF-NHM-5026R	Micro Straight Diamond Dusted Castroviejo Needle Holder	Smaller diameter jaw for 6-0 and 7-0 sutures
HF-S5080	Straight Goldman-Fox Perma Sharp Scissors, 12.5cm/5”	Used for cutting 6-0 and 7-0 sutures
HF-K012KPO3A6	Orban Knife 1/2	Used for sharp dissection in pouch and tunnel procedures
HF-PPAEL	Allen Periosteal Elevator	Used for blunt dissection in pouch and tunnel procedures
HF-PPAELA	Allen Elevator Anterior	Used for blunt dissection in anterior sites
HF-KPA	Allen End-Cutting Intrasulcular Knife, #6 Satin Steel Handle	Used for intrasulcular incisions
HF-IM4169	Lrg. Sig. Series 16 Inst. Cassette w/ Accessory Area, Green	
HF-ALKIT2	Allen Oral Plastic Surgery Kit	

The Allen Ridge Augmentation / Esthetic Crown Lengthening Kit CL

HF-SYRCW	Type CW Aspirating Anesthetic Syringe	Aspirating anesthetic syringe
HF-10-130-05	5 Scalpel Hdl.	Round handle allows finger tip control
HF-PCP116	CP-11 Color-Coded Probe	3,6,8 and 11mm probe with ergonomic handle
HF-MIR	5 Mouth Mirror, 6 Satin Steel Handle	Mirror with ergonomic handle for cheek and tongue retraction (2 per kit)
HF-SYG7/86	7/8 Younger-Good Curette	Used to refine marginal bone in crown lengthening procedures (2 per kit)
HF-SPM20	Microsurgical Corn Suture Pliers	Allows better visibility of tissue margins for precise suture placement
HF-8-905DD	Precision Dressing Forceps	Small diameter jaw for assistance in capture of needles
HF-NHM-5026R	Micro Straight Diamond Dusted Castroviejo Needle Holder	Smaller diameter jaw for 6-0 and 7-0 sutures
HF-S5080	Straight Goldman-Fox Perma Sharp Scissors, 12.5cm/5”	Used for cutting 6-0 and 7-0 sutures
HF-ASPCG3	3 Cogswell Suction Tube	Used for precision suction at surgical site
HF-PPBUSER6	Buser Periosteal	Excellent for elevating incised papillae and delicate flaps
HF-PPR3	3 Prichard Periosteal Elevator	Used in osseous surgery for flap retraction (2 per kit)
HF-CO26	2 Ochsenbein SE Chisel	Used to remove marginal bone in crown lengthening procedures
HF-H3	3 Curved Halsted-Mosquito Hemostat, 12cm/4.5”	Used in crown lengthening for frenectomy procedures
HF-IM1002	Hinged Inst. Clip, Sig. Series Cassettes, 6 Pack	Used to securely hold individual instruments
HF-IM4161	Lrg. Sig. Series 16 Inst. Cassette w/ Accessory Area, Gray	
HF-ALKIT3	Allen Ridge Augmentation Kit / Esthetic Crown Lengthening Kit	

The Allen / Johnston Suture Removal Kit SR

HF-EXD66	6/3 Explorer	Provides additional angulation for locating sutures that lie within sulcus
HF-EXD56	5 Explorer	Used to lift suture for cutting prior to removal
HF-NHM-5027	Micro Curved Smooth Castroviejo Needle Holder, 14cm/5.5”	Provides firm grip on 6-0 and 7-0 suture for removal under tension
HF-DPU17	U17 Utility Pick-up Dressing Pliers	Excellent for grasping and lifting knot to cut suture ends, remove sutures
HF-S31	31 Castroviejo Scissors, 10cm/4”	Allows precision cutting of 6-0 and 7-0 sutures in difficult to reach areas
HF-IM5056E2	Small Purple Cassette, 5 Inst Rails	
HF-AJSRKIT	Allen / Johnston Suture Removal Kit	

BioHorizons distributes Hu-Friedy's comprehensive line of specialty instruments and ancillary products. Hu-Friedy's unsurpassed reputation and guarantee behind every product make them the industry leader for instrumentation.

- Specialty Surgical Kits
- IMS - *Instrumentation Management System*
- Diagnostic
- Ultrasonic Inserts
- Scaling Instruments
- Oral and Periodontal Surgery
- Microsurgical Instruments
- Perma Sharp Sutures

Please note that the individual instruments will have a symbol next to them identifying in which kit they are found. The Allen Oral Plastic Surgery Kit instruments are indicated by a blue PS dot. The Allen Ridge Augmentation / Esthetic Crown Lengthening Kit instruments are indicated by a red SR dot. The Allen / Johnston Suture Kit instruments are indicated by an orange CL dot.

PS CL

HF-SYRCW

Type CW Aspirating Anesthetic Syringe
Aspirating anesthetic syringe.

PS CL

HF-10-130-05

5 Scalpel Hdl.
Round handle allows finger tip control.

PS CL

HF-PCP116

QCP-11 Color-Coded Probe
#6 Satin Steel Handle
3,6,8 and 11mm probe with ergonomic handle.

PS CL

HF-MIR

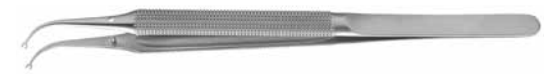
5 Mouth Mirror, 6 Satin Steel Handle
Mirror with ergonomic handle for cheek and tongue retraction.

HU-FRIEDY INSTRUMENTS

Please note that the individual instruments will have a symbol next to them identifying in which kit they are found. The Allen Oral Plastic Surgery Kit instruments are indicated by a blue PS dot. The Allen Ridge Augmentation / Esthetic Crown Lengthening Kit instruments are indicated by a red SR dot. The Allen / Johnston Suture Kit instruments are indicated by an orange CL dot.

HF-SYG7/86

7/8 Younger-Good Curette
#6 Satin Steel Handle
Used for root preparation and papilla elevation.



HF-SPM20

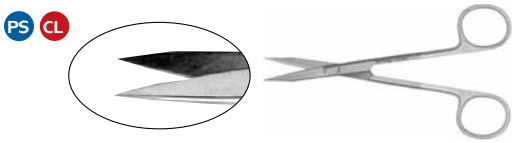
Microsurgical Corn Suture Pliers
Allows better visibility of tissue margins for precise suture placement.

HF-8-905DD

Precision Dressing Forceps
Small diameter jaw for assistant in capture of needles.

HF-NHM-5026R

Micro Straight Diamond Dusted Castroviejo Needle Holder, 18cm/7”
Smaller diameter jaw for 6-0, 7-0, 8-0, and 9-0 sutures.



HF-S5080

Straight Goldman-Fox Perma Sharp Scissors, 12.5cm/5”
Used for cutting 6-0 and 7-0 sutures.

Please note that the individual instruments will have a symbol next to them identifying in which kit they are found. The Allen Oral Plastic Surgery Kit instruments are indicated by a blue PS dot. The Allen Ridge Augmentation / Esthetic Crown Lengthening Kit instruments are indicated by a red SR dot. The Allen / Johnston Suture Kit instruments are indicated by an orange CL dot.

PS

HF-KO12KPO3A6

Orban Knife 1/2
#6 Satin Steel Handle
Used for sharp dissection in pouch and tunnel procedures.

PS

HF-PPAEL

Allen Periosteal Elevator
#6 Satin Steel Handle
Used for blunt dissection in pouch and tunnel procedures.

PS

HF-PPAELA

Allen Elevator Anterior
Used for blunt dissection in anterior sites.

PS

HF-KPA

Allen End-Cutting Intrasulcular Knife, #6 Satin Steel Handle
Used for intrasulcular incisions.

HU-FRIEDY INSTRUMENTS

Please note that the individual instruments will have a symbol next to them identifying in which kit they are found. The Allen Oral Plastic Surgery Kit instruments are indicated by a blue PS dot. The Allen Ridge Augmentation / Esthetic Crown Lengthening Kit instruments are indicated by a red SR dot. The Allen / Johnston Suture Kit instruments are indicated by an orange CL dot.

CL

HF-ASPCG3

3 Cogswell Suction Tube
Used for precision suction at surgical site.

CL

HF-PPBUSER6

Buser Periosteal
#6 Satin Steel Handle
Excellent for elevating incised papillae and delicate flaps.

CL

HF-PPR3

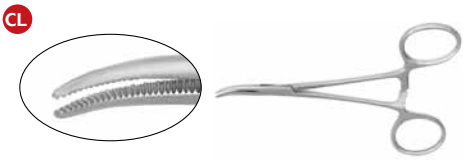
3 Prichard Periosteal
Used in osseous surgery for flap retraction.

CL

HF-CO26

2 Ochsenbein SE Chisel
#6 Satin Steel Handle
Used to remove marginal bone in crown lengthening procedures.

CL



HF-H3

3 Curved Halsted-Mosquito Hemostat, 12cm/4.5”
Used in crown lengthening for frenectomy procedures.

Please note that the individual instruments will have a symbol next to them identifying in which kit they are found. The Allen Oral Plastic Surgery Kit instruments are indicated by a blue PS dot. The Allen Ridge Augmentation / Esthetic Crown Lengthening Kit instruments are indicated by a red SR dot. The Allen / Johnston Suture Kit instruments are indicated by an orange CL dot.

SR

HF-EXD66

6/3 Explorer
#6 Satin Steel Handle
Provides additional angulation for locating sutures that lie within the sulcus.

SR

HF-EXD56

5 Explorer
#6 Satin Steel Handle
Used to lift suture for cutting prior to removal.

SR

HF-NHM-5027

Micro Curved Smooth Castroviejo Needle Holder, 14cm/5.5”
Provides firm grip on suture for removal under tension.

SR

HF-DPU17

U17 Utility Pick-up Dressing Pliers
Excellent for grasping and lifting knot to cut suture ends or remove sutures.

SR

HF-S31

31 Castroviejo Scissors, 10cm/4”
Allows precision cutting of 6-0 and 7-0 sutures in difficult to reach area.

Dr. Edward P. Allen's Recommended Sutures

For use in Oral Plastic Surgery and Ridge Augmentation / Crown Lengthening Procedures

10.7mm
3/8 Circle Premium Reverse Cut

HF-PSN1816C

Perma Sharp Suture
6-0 Chromic Gut 18", C-1 Premium.
Finer point geometry for smoother penetration.

10.7mm
3/8 Circle Premium Reverse Cut

HF-PSN8697P

Perma Sharp Suture
6-0 Polypropylene 18", C-1 Premium.
Finer point geometry for smoother penetration.

10.7mm
3/8 Circle Premium Reverse Cut

HF-PSN8696P

Perma Sharp Suture
7-0 Polypropylene 18", C-1 Premium.
This suture is used to secure coronally positioned flap / pouch over the graft.

12mm
3/8 Circle Reverse Cut

HF-PSN8384P

Perma Sharp Suture
6-0 Polypropylene 18", C-17.
Finer point geometry for smoother penetration.

Dr. Carl E. Misch's Recommended Sutures

For use in implant and bone graft related procedures

23mm
1/2 Circle Reverse Cut

HF-PSN460V

Perma Sharp Suture
3-0 Violet PGA Suture. 27", C-9.
Finer point geometry for smoother penetration.

18.7mm
3/8 Circle Reverse Cut

HF-PSN392V

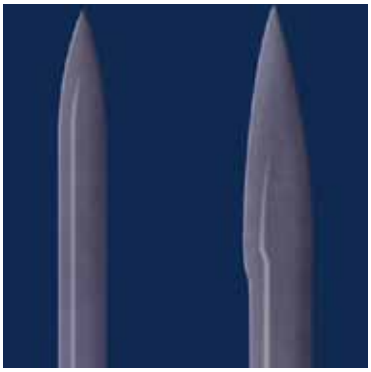
Perma Sharp Suture
4-0 Violet PGA Suture. 18", C-6.
Finer point geometry for smoother penetration.

*more Hu-Friedy Sutures on page 12-13

Specifically designed for dental surgery, Hu-Friedy sutures are made to perform in all dental surgical applications. Unique features allow less tissue pulling and tearing in thin and delicate areas.

The diameter of the Perma Sharp® Suture Needles is adjusted according to the size of the attached suture material, providing a smooth transition from needle to suture for reduced tissue disruption.

Perma Sharp Sutures from Hu-Friedy are made with 300 Series Stainless Steel, the ideal alloy for suture needles. Perma Sharp Sutures have a fine point geometry for smoother penetration and less tissue disruption.



Perma Sharp Suture Needle From Hu-Friedy magnified 35x

Leading Competitive Suture Needle magnified 35x

How to Use this Cross-reference Chart

1. Find the needle you are currently using from the last four columns.
2. Go to the first column to find the corresponding Hu-Friedy needle.
3. Locate the Hu-Friedy needle on page 13, then follow along the line to locate the correct suture.
4. Determine the suture size and material you require and locate the part code in the colored box.

Hu-Friedy Perma Sharp® Cross Reference Chart				
HU-FRIEDY NEEDLE	ETHICON NEEDLE	DAVIS & GECK/ USSC NEEDLE	PATTERSON	LOOK HAVEL SCHEIN NEEDLE
C-1	P-1	PRE-1	DSS-10	C-1
C-3	P-3	PRE-2	DSS-12	C-3
C-6	FS-2, PS-2	CE-4, PRE-4	DS-18, DSS-18	C-6, PC-31
C-7	FS-1, PS-1	CE-6, PRE-6	DS-24, DS-26, DSS-2	C-7, PC-33
C-9	X-1	C-30, HS-24		C-9, C-31
C-17	C-3	CE-2	DS-12	C-17, C-16
C-19	J-1			C-19
C-22	FS-3, PS-3	CE-3, PRE-3	DS-16, DSS-14	C-22, PC-34
C-43	X-8		HS-16	C-43, C-26
D-14	V-5	DT-31, CV-332	HRT-17	D-14, Y-5
T-4	SH-1	T-16		
T-28	RB-1	T-31, CV-331		

HU-FRIEDY PERMA SHARP SUTURES

	Needle	Suture Size	Non-Absorbable: Silk, black braided	Non-Absorbable: Polyester, green braided	Non-Absorbable: Polypropylene	Non-Absorbable: Black Monofilament Nylon	Absorbable: PGA-Violet*	Absorbable: PGA-Undyed*	Absorbable: PGA FA** (Fast Absorption)	Absorbable: Gut, Chromic***	Absorbable: Gut, Plain****
Premium Cut	C-1 10.7mm 3/8 Circle Premium Reverse Cut	3-0									
		4-0									
		5-0						PSN490V	PSN505FA		
		6-0			PSN8697P			PSN489V		PSN1816C	PSN774A
		7-0			PSN8696P						
	C-3 13mm 3/8 Circle Premium Reverse Cut	3-0									
		4-0	PSN641S					PSN494V	PSN510FA	PSN1654C	PSN1644A
		5-0	PSN640S	PSNR698L	PSN8698P	PSN698N		PSN493V	PSN515FA	PSN687C	PSN686A
		6-0			PSN8695P			PSN492V			
		7-0									
	C-6 18.7mm 3/8 Circle Premium Reverse Cut	3-0							PSN520FA		
		4-0							PSN525FA		
		5-0							PSN530FA[1]		
		6-0									
		7-0									
Regular Cut	C-6 18.7mm 3/8 Circle Reverse Cut	3-0	PSN7772S	PSNR7772L			PSN393V		PSN540FA[3]	PSN636C[1]	PSNH822A[1]
		4-0	PSN683S	PSNR683L	PSN8683P	PSN662N	PSN392V[2]	PSN422V[1]	PSN535FA[4]	PSN635C[1]	PSN7771A[6]
		5-0	PSN682S		PSN8661P	PSN661N		PSN421V[1]		PSN634C[1]	PSNH820A[1]
		6-0									
		7-0									
	C-4 12.7mm 1/2 Circle Reverse Cut	3-0									
		4-0									
		5-0			PSN8245P						
	C-7 24.3mm 3/8 Circle Reverse Cut	3-0	PSN684S						PSN580FA[1]		PSNH810A[1]
		4-0									
		5-0									
		6-0									
		7-0									
	C-9 23mm 1/2 Circle Reverse Cut	2-0	PSN737S								
		3-0	PSN632S				PSN460V[1]		PSN585FA[5]		PSN612A
		4-0	PSN631S						PSN590FA[1]		
		5-0									
		6-0									
		7-0									
	C-17 12mm 3/8 Circle Reverse Cut	3-0									
		4-0	PSN736S					PSN386V		PSN386C	
		5-0	PSN719S		PSN8385P			PSN385V		PSN385C	
		6-0			PSN8384P						
		7-0									
	C-19 18.3mm 1/2 Circle Reverse Cut	3-0	PSN733S								
		4-0	PSN734S					PSN724V			
		5-0						PSN723V			PSN723A
		6-0									
		7-0									
	C-22 16.2mm 3/8 Circle Reverse Cut	3-0									
		4-0					PSN389V				
		5-0	PSN1628S		PSN8614P		PSN388V				
		6-0	PSN681S		PSN8660P		PSN387V				
		7-0									
	C-43 16.2mm 1/2 Circle Reverse Cut	3-0	PSN7762S								
		4-0	PSN7763S								
		5-0	PSN7764S								
		6-0									
		7-0									
	D-14 17.5mm 1/2 Circle Cutting End Taper	3-0	PSN953S[1]	PSN6953L[1]							
		4-0	PSN952S[1]				PSN271V[1]				
		5-0		PSN7773L	PSN7773P					PSN7773C	
		6-0									
		7-0									
	T-4 22.2mm 1/2 Circle Taper Point	2-0									
		3-0	PSN7343S[1]								
		4-0	PSN7342S[1]								
		5-0									
		6-0									
		7-0									
	T-28 17.5mm 1/2 Circle Taper Point	3-0	PSN872S[1]				PSN305V[1]				
		4-0	PSN871S				PSN304V				
		5-0	PSN870S		PSN8756P		PSN303V[1]			PSNU202C	
		6-0					PSN302V[1]				
		7-0									
	S-4 20mm Straight Taper Point	4-0	PSN18507S								

Sutures are 18" in length unless otherwise noted

[1]27" in length
[2]Also available in 27" length (PSN397V)
[3]Also available in 27" length (PSN550FA)
[4]Also available in 27" length (PSN545FA)
[5]Also available in 27" length (PSN595FA)
[6]Also available in 27" length (PSNH821A)

*PGA loses strength in 14-17 days and is absorbed in 90-120 days

**PGA FA loses strength at 7-10 days and is absorbed in 49-63 days

***Chromic Gut loses strength in 10-14 days and is absorbed in 60-90 days

****Plain Gut loses strength in 5-7 days and is absorbed in 30-60 days

W&H ImplantMed 915

Maximum motor speed is 40,000 rpm. The motor comes with the WI-75MB 20:1 handpiece, bur testing gauge, (3) disposable irrigation assemblies, and service oil (shipped separately).

WH-915 **W&H ImplantMed 915 Starter Kit**

Re-order items:

WH-ITC915	WH-915 One-piece Disposable Irrigation Set (6 pack)
WH-915MC	ImplantMed 915 Motor Cable - 1.8 meter
WH-IC	Irrigation Clip for WI-75MB Handpiece

W&H ElcoMed SA-200

Maximum motor speed is 50,000 rpm. The SA-200 permits the storage of torque characteristics of a treatment stage, which can then be saved on a DOC card for archiving purposes. The kit includes the WS-75 20:1 handpiece, (10) disposable spray tubes, bur testing gauge, irrigation spike and service oil (shipped separately).

WH 200 **W&H ElcoMed SA-200 Professional Kit**

Re-order items:

WH-200PTWC	Pump Tube (190mm) with Connectors
WH-200RPT (3 PK)	Replacement Pump Tubes (190mm) (3 pack)
WH-200INI	INI Cards (3 pack)
WH-200DOC	DOC Cards (3 pack)
WH-200MC	ElcoMed 200 Motor Cable -1.8 meter

Universal and Legacy Re-order Items

Ref. Code	Description	Motor Compatibility
WH-ST (10 PK)	Green Single-Use Spray Tubes (10 pack)	All W&H Motors
WH-CLP (10 PK)	Set of Spray Tube Clamps (10 pack)	ElcoMed 100 & 200
WH-100PTWC	Pump Tube with Connectors (65mm)	ElcoMed 100
WH-100RPT (5 PK)	Replacement Pump Tubes (65mm) (5 pack)	ElcoMed 100
WH-100MC	ElcoMed 100 Motor Cable -1.8 meter	ElcoMed 100
WH-110MC	ImplantMed 110 Motor Cable -1.8 meter	ImplantMed 110
WH-110CLP (5 PK)	Set of Spray Tube Clamps (5 pack)	ImplantMed 110 & 915
WH-110PTWC	Pump Tube (85mm) with Connectors	ImplantMed 110 & 915
WH-110RPT	Replacement Pump Tubes (85mm) (3 pack)	ImplantMed 110 & 915
WH-110ISAWRC	Irrigation Spike Assembly with Roller Clamp	ImplantMed 110 & 915
WH-110RC	Flow Regulating Roller Clamp	ImplantMed 110 & 915
WH-ISA	Irrigation Spike Assembly (autoclavable)	All W&H Motors
WH-ITWOS	Irrigation Tubing w/o Spike (autoclavable)	All W&H Motors
WH-MD400	MD-400 Service Oil-F1	All W&H Motors
WH-OSC	Oil Spray Cap	All W&H Motors
WH-SP	Sterilization Plug for Motor Cable	All W&H Motors

W&H ElcoMed Surgical Handpieces

WS-75

W&H 20:1 Contra-angle Handpiece WS-75

Contra-angle Handpiece with speed reduction ratio of 20:1 (2,500 rpm maximum). Equipped for both internal cooling & external cooling. Push-button bur release. Uses latch-type surgical drills and burs.

WI-75MB

W&H 20:1 Contra-angle Handpiece WI-75MB

1:20 speed-increasing ratio - 2,000 rpm maximum with the ImplantMed 915. Contra-angle Handpiece suitable for high speed preparation and tissue augmentation procedures. Equipped for both internal & external cooling. Push-button bur release. Monoblock construction.

WS-92

W&H 1:2.7 Contra-angle Speed Increasing Handpiece

1:2.7 speed-increasing ratio - 135,000 rpm maximum. Contra-angle Handpiece suitable for high speed preparation and tissue augmentation procedures. External irrigation port. Uses friction-grip burs (Ø1.6mm).

S-11

W&H 1:1 Straight Surgical Handpiece

1:1 ratio - 50,000 rpm maximum. Suitable for bone harvesting, third molar extractions and osteoplasty. Easily dismantled for cleaning. Uses 45mm friction-grip surgical burs (Ø2.35mm).

S-12

W&H 1:2 Contra-angle Surgical Handpiece

1:2 speed increasing ratio - 80,000 rpm maximum. Suitable for surgical procedures such as bone smoothing, third molar extractions and osteotomy site drilling. High precision bearings ensure that the unit runs vibration free. Uses friction-grip surgical burs at least 65mm long (Ø2.35mm).

Bur Testing Gauge

WH-BTG

Bur Testing Gauge

Used to verify the condition of latch-type burs. Burs in proper condition will fit into larger diameter hole, but will not fit into the smaller hole (marked red). Burs that fail either of these criteria are unfit for use, and may cause damage to the handpiece if used.

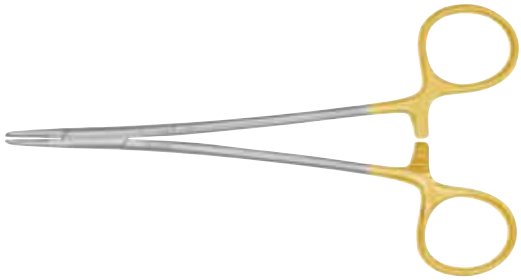
***IMPORTANT NOTE**: W&H motors and handpieces are distinguished by their precision craftsmanship and reliability and are covered by a 1-year manufacturer's warranty. Instructions for required cleaning and maintenance are outlined in each product's user manual, and adherence to these procedures is essential for proper function and longevity of the products. BioHorizons assumes no liability for the failure of, or damage to, motors and handpieces that are not properly maintained or used contrary to the instructions for use. Please contact your Product Support Specialist or Customer Care if you need additional information.*

HF-TP43

43 7x7 Adson Brown Tissue Pliers, 12cm/4.75”
Used to grasp tissue flaps during grafting procedures.

HF-SP20

20 Corn Suture Pliers
Corn suture pliers can be used to gently grasp the graft during harvesting and placement. The broad, flat-tip design minimizes trauma and prevents tissue damage.



HF-NH5038

Crile-Wood Perma Sharp Needle Holder, 15cm/6”
Provides controlled grip pressure and smooth release.

HF-S18SC

18 Curved Iris Super-Cut Scissors, 11.5cm/4.5”
Supercut scissors are ideal for gripping tissue and cutting interproximally.

HF-S17SC

17 Straight Iris Super-Cut Scissors, 11.5cm/4.5”
Supercut scissors are ideal for gripping tissue and cutting interproximally.

HF-10-130-03

3 Scalpel Handle
Flat, Bard Parker style with metric ruler.

HF-PBQ6

PBQ6 Benque Periosteal
#6 Satin Steel Handle
A thin periosteal elevator used to assist suturing during grafting. Allows you to place a separation between the flap and the graft. The suture stops at the instrument without penetrating the graft.

HF-CM2/4

2/4 Molt Surgical Curette
For curettage, periosteal reflection, cyst removal and debridement of tooth socket.

HF-PMPI

Membrane Placement Inst.
Combination of pointed and curved narrow placement design is ideal for use with periodontal membranes. The pointed end allows for membrane manipulation. The curved end is used for membrane positioning in and around flaps.

HF-PP5504

Misch R/L Periosteal
Ideal for delicate tissue retraction. The spear-shaped end is used to initiate the flap by reflection of the papilla in a sulcular incision.

HF-CM4L

#4 Molt SE Curette Left Angled Modified
For tissue reflection in edentulous areas.

HF-CM4R

#4 Molt SE Curette Right Angled Modified
For tissue reflection in edentulous areas.

HF-CLG

Crown Lengthening Gauge
Used to achieve the proper clinical and biologic crown length and also to measure the ideal position of the interdental papilla.

HF-PROG

Proportion Gauge
Used to measure the length and width of maxillary anterior teeth and determine tooth proportion.

HF-SOUNDG

Sounding Gauge
Provides analysis of the osseous crest location both mid-facially and interdentally. Also used to measure the bone level before reflecting the flap.

HF-SYBG

Bone Grafting Syringe

Introduces graft material into the recipient site. 7mm diameter tube for injecting large amounts of bone material. Curved end facilitates introduction of the graft in difficult to reach areas.

HF-SGRT

Sinus Retractor

Permits easy access and reflection of the mucosal flap along the zygomatic arch to expose the sinus window.

HF-SRM10

Sinus Graft Retractor Misch 10

Permits easy access and reflection of the mucosal flap along the zygomatic arch to expose the sinus window. 10mm flare.

HF-SRM15

Sinus Graft Retractor Misch 15

Permits easy access and reflection of the mucosal flap along the zygomatic arch to expose the sinus window. 15mm flare.

HF-MAL1

1 Mead Mallet, Nylon Ends

Used with a chisel to split teeth and/or remove bone.

HF-FRCE

Freer Curved Elevator

Used to harvest bone from the symphysis or ramus for onlay grafts. The angulation of the instrument head and the single bevel edge ensures that the bone is removed safely without damaging the underlying donor site.

HF-BMIL

Bone Mill

Hand-held bone mill used to create particulate bone from harvested autogenous bone.

SINUS / BONE GRAFTING INSTRUMENTS

HF-IMPBC

Bone Crusher
Used to reduce particle size of cortical bone grafts. Creates approximately 2mm particle size and provides excellent leverage. Overall length is 10 inches.

HF-BPACK

Bone Packer DE 6-8mm
#6 Satin Steel Handle
Inserted through the sinus window to pack graft material into recipient site. Also used to pack bone for common grafting procedures such as extraction sockets.

HF-RASP

Bone Rasp
#6 Satin Steel Handle
Sharp ends used to score the floor of the sinus cavity or host bone to promote osteogenesis through a regional acceleratory phenomenon (RAP) response.

HF-BONT

Bone Tamper 7mm
Flat-ended metal punch with a 7mm diameter serrated tip. Used to gently separate the lateral sinus window from the surrounding bone.

HF-RKSN

Kerrison Short Nose Rongeurs
Low-profile design for widening the sinus opening when the window to the sinus is not large enough for proper membrane elevation. The innovative tip design also collects bone for future grafting.

HF-RBEY

Beyer Rongeurs
Used for trimming and recontouring alveolar and cortical bone. Also used to harvest bone from donor sites. The double action mechanism permits greater force to be exerted at the tip with minimal force at the handles.

HF-IMP6522

Bone Graft Scoop
Used for mixing and placement of bone graft materials. Large end of scoop is 10mm x 25mm. Small end is 5mm x 21mm.

HF-CBBC

Cortical Bone Clamp
The cortical bone clamp with slotted tip permits easy placement of fixation screws through a slot and into a pre-drilled cortical graft. Locks to hold in place.

Sinus Curettes

Short and Long Sinus Curettes used to separate the sinus membrane from the inner wall of the antrum. Curettes should be used in series and slid along the bone, completely 360^{O} around the access window margin. This ensures the release of the membrane without tearing it from the sharp bony access margins.

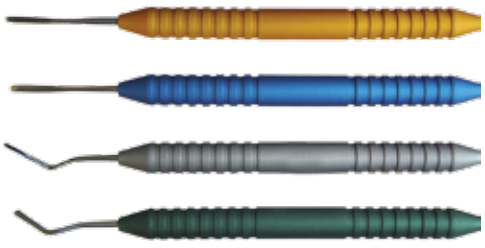
HF-SINC1

Sinus Curette 1
#6 Satin Steel Handle

HF-SINC2

Sinus Curette 2
#6 Satin Steel Handle

Periotomes



OTA-400 **Periotome Set of 4**
Available in 4 blade designs to facilitate atraumatic tooth extractions. Typically perform 15-20 extractions before breaking; whereupon they must be discarded and replaced. Purchased as a complete set (OTA-400) or individually (see below).

OTA-401	**Periotome Thin (Gold)**
OTA-402	**Periotome Thick (Blue)**
OTA-403	**Periotome Angled (Gray)**
OTA-404	**Periotome Angled (Green)**

400-050 **Sterilization Tray**

Periotomes are not available in all countries.

Osteotomes

Offset geometry provides access into the posterior regions of the mouth. Set of 4 osteotomes includes sterilization tray. Sterilization tray (400-050) is sold separately.

SI-OO2	**2.0mm Offset Osteotomes**
SI-OO3	**3.0mm Offset Osteotomes**
SI-OO3.3	**3.3mm Offset Osteotomes**
SI-OO4	**4.0mm Offset Osteotomes**
SI-OOS	**Offset Osteotome Set**

Implant Site Dilators

Site dilators radially compress bone and increase bone density at the implant / bone interface. Set of six dilators includes sterilization tray. Sterilization tray (400-050) is sold separately.

SI-SD2	**2.0mm Straight Site Dilators**
SI-SD2.5	**2.5mm Straight Site Dilators**
SI-SD3	**3.0mm Straight Site Dilators**
SI-SD3.4	**3.4mm Straight Site Dilators**
SI-SD4	**4.0mm Straight Site Dilators**
SI-SD4.4	**4.4mm Straight Site Dilators**
SI-SDS	**Straight Implant Site Dilator Set**

Offset Site dilators radially compress bone and increase bone density at the implant / bone interface. Provides access to the posterior regions of the mouth. Set of seven dilators includes sterilization tray. Sterilization tray (400-050) is sold separately.

SI-OSD2	**2.0mm Offset Site Dilators**
SI-OSD2.5	**2.5mm Offset Site Dilators**
SI-OSD3	**3.0mm Offset Site Dilators**
SI-OSD3.4	**3.4mm Offset Site Dilators**
SI-OSD4	**4.0mm Offset Site Dilators**
SI-OSD4.4	**4.4mm Offset Site Dilators**
SI-OSD5.2	**5.2mm Offset Site Dilators**
SI-ODS	**Offset Implant Site Dilator Set**

Implant Surgical Instrumentation

HF-IR

Lip & Cheek Retractor

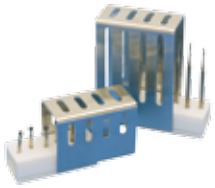
The anatomically shaped handle permits fatigue-free operation. The angulation of the working end facilitates easier retraction and better viewing of the surgical site over conventional retractors. Great for fully edentulous implant cases.

Trephines

For use in harvesting autogenous bone. Dimensions reflect internal diameter of Trephine. Bur cuts to a maximum depth of 9.8mm. Depth markings are spaced in 2mm increments. Use with latch-type contra-angle WS-75 handpiece. Trephines may be purchased as a set or individually.

HF-TREBS

Complete Trephine Set, Including Bur Cushion
Set includes all 6 trephines and autoclavable bur cushion.



HF-IMS-1372SH

1/2 Bur Cushion with Short Lid, Holds 6
A hollow, rectangular, silicone base with a stainless steel lid that is designed to hold burs in place during cleaning and sterilization.

2mm Trephine
HF-TRE020M

4mm Trephine
HF-TRE040M

6mm Trephine
HF-TRE060M

8mm Trephine
HF-TRE080M

10mm Trephine
HF-TRE100M

12mm Trephine
HF-TRE120M

Bone Grafting Instruments

122-110

2.0mm Lindemann Bone Cutter
Side-cutting drill used to correct angulation and location of osteotomy preparations.

Use with latch-type contra-angle handpiece .

122-108

#8 Surgical Bur
Stainless steel bur used for opening a sinus window.
18mm shank, friction-grip (1.6mm).

May be used with WS-92 1:2.7 Speed Increasing Contra-angle handpiece, or similar.

Bone Fixation Screw Kit

Indicated for use in fixation of cortical onlay grafts and meshes and for membrane tenting used in Guided Bone Regeneration. Kit is compact and conveniently organized for efficient retrieval of instruments and screws. Includes cortical bone drills for both latch-type and friction-grip handpieces.

160-900

Bone Fixation Screw Kit includes:

- 24 Screws
  - (6) 1.4 x 8mm Micro Screws
  - (6) 1.4 x 10mm Micro Screws
  - (6) 2.0 x 10mm Mini Screws
  - (6) 2.0 x 12mm Mini Screws
- Flexible Micro Mesh
- Comprehensive Instrument Set
- Screwdriver Body
- Autoclavable Screw Block with Lid

Bone Fixation Screw Kit Reorder Items

BSV-14X4 — **1.4mm x 4mm Micro Screw (pack of 6)**

BSV-14X6 — **1.4mm x 6mm Micro Screw (pack of 6)**

BSV-14X8 — **1.4mm x 8mm Micro Screw (pack of 6)**

BSV-14X10 — **1.4mm x 10mm Micro Screw (pack of 6)**

BSV-14X12 — **1.4mm x 12mm Micro Screw (pack of 6)**

BSV-2X8 — **2mm x 8mm Mini Screw (pack of 6)**

BSV-2X10 — **2mm x 10mm Mini Screw (pack of 6)**

BSV-2X12 — **2mm x 12mm Mini Screw (pack of 6)**

BSV-2X14 — **2mm x 14mm Mini Screw (pack of 6)**

BS-MMESH — **Micro Mesh for Guided Bone Regeneration**
24mm x 35mm, 0.1mm thick

BS-MCSSFT-HND — **Micro Screwdriver Shaft for Screwdriver Body**

BS-MCSSFT-ANG — **Micro Screwdriver Shaft for latch-type handpieces**

BS-1MCDB-ANG — **1.0mm Micro Drill Bit for latch-type handpieces**

BS-MNSSFT-HND — **Mini Screwdriver Shaft for Screwdriver Body**

BS-MNSSFT-ANG — **Mini Screwdriver Shaft for latch-type handpieces**

BS-16MMDB-ANG — **1.6mm Mini Drill Bit for latch-type handpieces**

BS-16X54.8MDB-STR — **1.6 x 54.8mm Mini Drill Bit for friction-grip handpieces (Ø2.35mm)**

BS-16X67MDB-STR — **1.6 x 67mm Mini Drill Bit for friction-grip handpieces (Ø2.35mm)**

BS-SDRIVER — **Screwdriver Body**

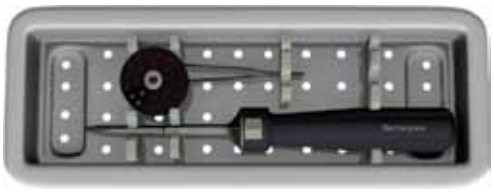
AutoTac System Kit

The AutoTac System Kit is used to secure membranes with the push of a button. The efficient "no touch" tack system with a convenient one-handed delivery mechanism effectively fixates membranes.

400-270

AutoTac System Starter Kit includes:

- Delivery Handle
- Autoclavable Titanium Tack Cassette (pre-loaded with 21 Titanium Tacks)
- Forceps
- Sterilization Tray with cover



AutoTac System Kit Reorder Items

400-248 **AutoTac Autoclavable Tack Cassette (tacks not included)**

400-260 **AutoTac Titanium Tacks, pkg of 21 & Cassette**

400-240 **AutoTac Titanium Tack Vial, pkg of 5**

References

1. References Available.
2. Human Histologic Evidence of a Connective Tissue Attachment to a Dental Implant.
M Nevins, ML Nevins, M Camelo, JL Boyesen, DM Kim. International Journal of Periodontics & Restorative Dentistry. Vol. 28, No. 2, 2008.
3. FDA 510(k) K051188 and K051195 indications For Use statements and summaries of safety and effectiveness.
for use as a bone void filler, bone graft extender and bone graft substitute.
4. Prediction of In Vivo Stability of a Resorbable, Reconstituted Type I Collagen Membrane by In Vitro Methods.
JB Ulreich, G Zuclich, HB Lin, ST Li. 2000 Society World Biomaterials Congress Transactions, Sixth World Biomaterials Congress Transactions.
5. Acellular Dermal Matrix Graft as a Membrane for Guided Bone Regeneration: A Case Report.
AB Novaes, SL Souza. Implant Dent. 2001;10(3):192-195.
6. Acellular Dermal Matrix for Mucogingival Surgery: A Meta-Analysis.
R Gapski, CA Parks, HL Wang. J Periodontol. 2005;76(11):1814-1822.
7. AlloDerm Surgical Technique, BioHorizons literature LD101.
8. Heat production by 3 implant drill systems after repeated drilling and sterilization.
Chacon GE, Bower DL, Larsen PE, McGlumphy EA, Beck FM. J Oral Maxillofac Surg. 2006 Feb;64(2):265-9.

Product Support Specialist: _____

Cell phone: _____

Fax: _____

BioHorizons No Exceptions Lifetime Warranty on Implants and Prosthetics:
BioHorizons implants and prosthetic components carry a Lifetime Warranty. We will replace any BioHorizons implant or prosthetic component if removal of that product due to failure (excluding normal wear to overdenture attachments) is required for any reason, at any time.

Additional Warranties:
BioHorizons warranties instruments, surgical drills, taps, torque wrenches and VIP treatment planning software for the period specified for each in (1), (2) and (3). During the specified warranty period BioHorizons will replace or repair any product with a defect in material or workmanship.

(1) Instruments: The warranty on BioHorizons instruments extends for a period of one (1) year from the date of initial invoice. This includes drivers, sinus lift components, implant site dilators and other BioHorizons tools used in the placement or restoration of our implants.

(2) Surgical Drills and Taps: Surgical drills and taps are warrantied for a period of 90 days from the date of initial invoice. Surgical drills and taps should be replaced when they are worn, dull, corroded or in any way compromised. BioHorizons recommends the replacement of drills after 12 to 20 osteotomies.[8]

(3) VIP treatment planning software: The warranty on VIP treatment planning software extends for a period of ninety (90) days from the date of initial invoice. The warranty requires that VIP be used according to the minimal system requirements.

Return Policy:
All returns of product require a Return Authorization Form, which can be acquired by contacting Customer Care at 888-246-8338. Please include a copy of the Return Authorization Form with the product. AlloDerm® and AlloDerm® GBR™ may not be returned or exchanged for credit due to storage requirement guidelines. Grafton® DBM, MinerOss® and Mem-Lok must be exchanged or returned within (10) days of receipt.

Instructions for initiating returns can be found on the reverse side of the invoice that was shipped with the product. Please contact Customer Care if you need a copy of the instructions or if you have additional questions or requests.

Disclaimer of Liability:
BioHorizons products may only be used in conjunction with the associated original components and instruments according to Instructions for Use. Use of any non-BioHorizons products in conjunction with BioHorizons products will void any warranty or any other obligation, expressed or implied, of BioHorizons.

Treatment planning and clinical application of our products are the responsibility of each individual clinician. BioHorizons is not responsible for incidental or consequential damages or liability relating to use of our products alone or in combination with other products other than replacement or repair under our warranties. VIP may only be used in conjunction with the associated original components and instruments according to Instructions for Use.

Distributed Products:
Distributed products are subject to price change without notice.

Validity:
Upon its release, this literature supersedes all previously published versions.

BioHorizons strongly recommends completion of postgraduate dental implant education and strict adherence to the Instructions for Use (IFU) that accompany our products. Treatment planning and use of the products are solely your responsibility. BioHorizons is not responsible for incidental or consequential damages or liability relating to use of our products alone or in combination with other products, other than replacement or repair under our warranties.

BioHorizons continually strives to improve its products and therefore reserves the right to improve, modify, change specifications or discontinue products at any time. Images depicted in this literature are not to scale.

BioHorizons USA
2300 Riverchase Center
Birmingham, AL 35244

Customer Care / Servicio al Cliente:
888-246-8338 or 205-967-7880

BioHorizons Canada
21 Amber Street, Unit # 6
Markham, Ontario L3R 4Z3

Customer Care / Service à la Clientèle:
866-468-8338 or / ou 905-944-1700

BioHorizons Spain
Serrano Anguita, 10
28004 Madrid, España

Atención al Cliente:
+34 91 713 10 84

BioHorizons UK
17 Wellington Business Park
Dukes Ride
Crowthorne, Berkshire RG45 6LS

Customer Care:
+44 1344 752560

BioHorizons Chile
Cerro Colorado 5030, Officina 513
Las Condes
Santiago, Chile

Atención al Cliente:
+56 2 361 9519

BioHorizons Australia
25-33 Allen Street
Waterloo, NSW 2019

Customer Care:
+61 2 8399 1520

BioHorizons Germany
Marktplatz 3
79199 Kirchzarten

Kunden Service:
+49 7661-909989-0

Not all products shown or described in this literature are available in all countries.
Grafton® DBM and MinerOss® are processed by Osteotech, Inc. AlloDerm® and AlloDerm® GBR™ are processed by LifeCell.
Mem-Lok is manufactured by Collagen Matrix, Inc.

As applicable, BioHorizons products are cleared for sale in the European Union under the EU Medical Device Directive 93/42/EEC. We are proud to be registered to ISO 13485:2003, the international quality management system standard for medical devices, which supports and maintains our product licences with Health Canada and in other markets around the globe. Original language is English. © 2009 BioHorizons Implant Systems, Inc. All Rights Reserved.

shop online at
www.biohorizons.com

ML0203

REV D MAY 2009